CALIFORNIA WILDLIFE HABITAT RELATIONSHIPS SYSTEM

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M155 Fisher Martes pennanti

Family: Mustelidae Order: Carnivora Class: Mammalia

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DISTRIBUTION, ABUNDANCE, AND SEASONALITY

Uncommon permanent resident of the Sierra Nevada, Cascades, and Klamath Mts.; also found in a few areas in the North Coast Ranges (Grinnell et al. 1937). Occurs in intermediate to large-tree stages of coniferous forests and deciduous-riparian habitats with a high percent canopy closure (Schempf and White 1977).

SPECIFIC HABITAT REQUIREMENTS

Feeding: Fishers are largely carnivorous. Eat rabbits and hares, especially snowshoe hares, and rodents (mice, porcupines, squirrels, mountain beavers), shrews, birds, fruits, and carrion. Prey on ground surface and in trees. Fishers are opportunistic; they search for small mammals, and pounce on, or chase prey. Also dig out prey. Grenfell (1979) reported that the most important food item in the stomachs of 8 fishers was false truffle, a subterranean fungus.

Cover: Fishers use cavities in large trees, snags, logs, rock areas, or shelters provided by slash or brush piles. Dense, mature stands of trees also provide cover, especially in winter.

Reproduction: Fishers den in a variety of protected cavities, brush piles, logs, or under an upturned tree. Hollow logs, trees, and snags are especially important.

Water: May require drinking water.

Pattern: Suitable habitat for fishers consists of large areas of mature, dense forest stands with snags and greater than 50% canopy closure.

SPECIES LIFE HISTORY

Activity Patterns: Active yearlong. Mostly nocturnal and crepuscular, some diurnal activity.

Seasonal Movements/Migration: Non-migratory.

Home Range: In Ontario, Canada, home ranges were estimated at 38 km² (10 mi²) (deVos 1952). In Massachusetts, home ranges averaged 19.2 km² (74 mi²), and varied from 6.6 to 39.6 km² (2.5 to 15.3 mi²). Home ranges usually smaller in summer than in winter (Kelly 1977). The long axis of home range tends to parallel valleys. Home ranges of 3 adult males in Trinity Co. averaged 14 km² (5.4 mi²) (Buck et al. 1979). The fishers in Trinity Co. appeared to have regularly used travel routes within the home ranges (Buck et al. 1979)

Territory: Fishers appear to be territorial (Powell 1981b).

Reproduction: Females breed a few days after parturition; implantation of the embryo is delayed until the following winter. Post-implantation active growth lasts about 30 days (Powell 1981b). Young born February through May. Litter size averages 2.7, and ranges from 1-4, rarely 5. Young remain with female until late autumn. Males and females become sexually mature in the first or second yr (Powell 1982).

Niche: Few animals prey on fishers other than humans. Fishers are one of the few specialized predators on porcupines. Have been transplanted into Oregon, West Virginia, and other states for porcupine control (Hooven 1971, Powell 1981a, 1981b, 1982). Long-term studies suggest that fishers predominantly are terrestrial (Powell 1981b).

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